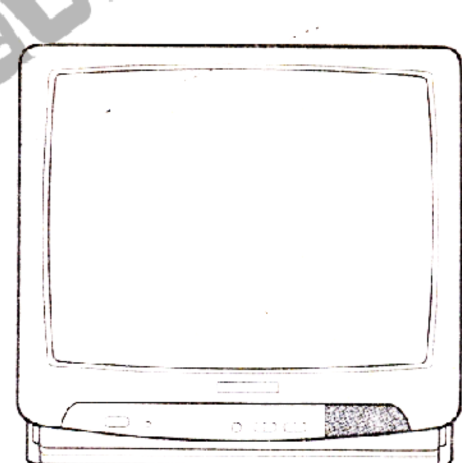
GoldStar

COLOUR TV SERVICE MANUAL

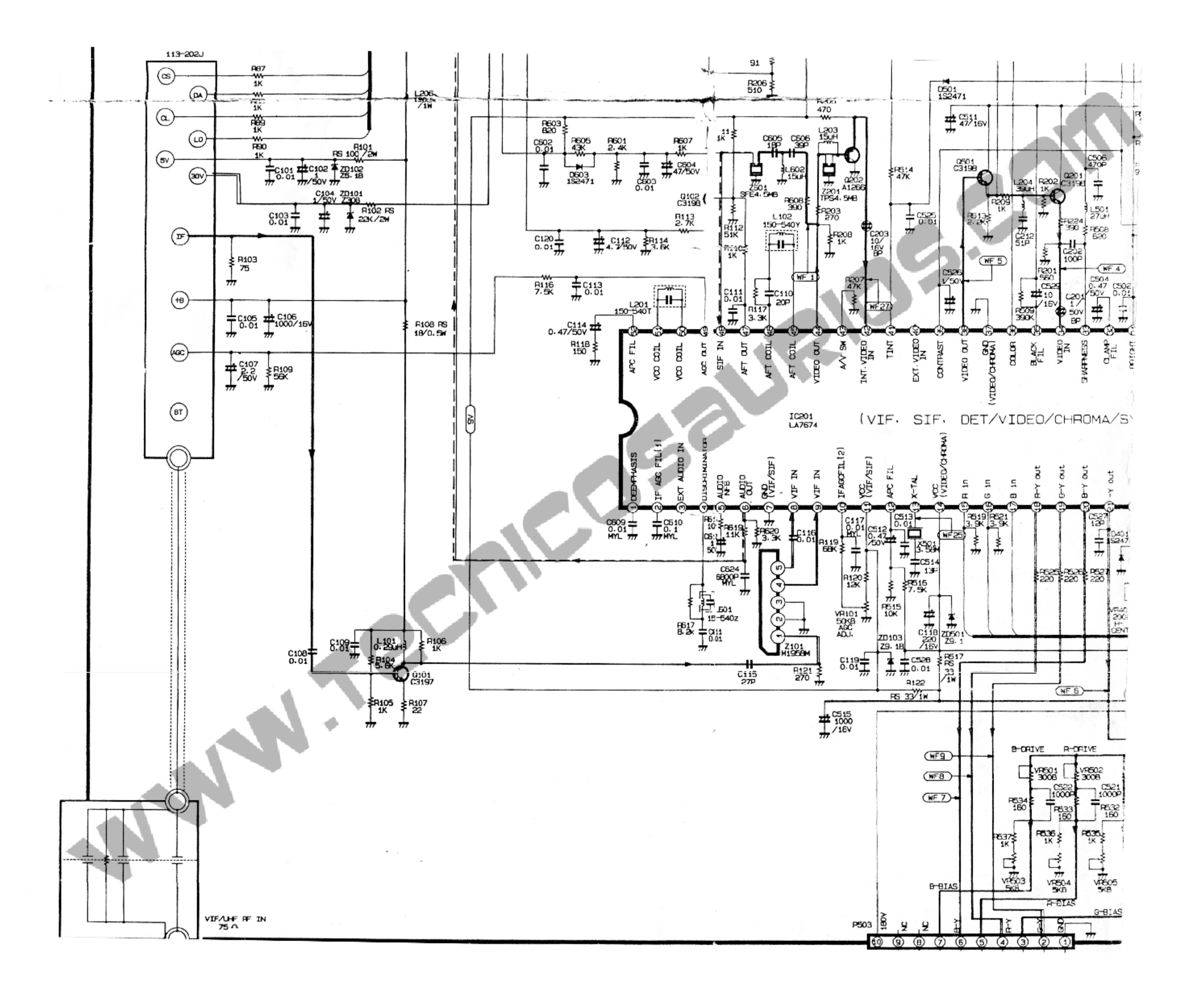
CAUTION
BEFORE SERVICING THE CHASSIS, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL



CHASSIS: NC-36A

MODEL: CN-14A80
GCT1304M(CN-14A82)
GCT1354M(CN-14A84)
CN-20A80
GCT1904M(CN-20A82)




113-202J
CS
DA
CL
LO
5V
30V
IF
+B
AGC
BT
VIF/UHF RF IN
75 Ω
IC201
LA7674
(VIF, SIF, DET/VIDEO/CHROMA/S
APC FIL
VCO COIL
VCO COIL
AGC OUT
SIF IN
AFT OUT
AFT COIL
AFT COIL
VIDEO OUT
A/V SW
INT. VIDEO IN
TINT
EXT. VIDEO IN
CONTRAST
VIDEO OUT
GND (VIDEO/CHROMA)
COLOR
BLACK FIL
VIDEO IN
SHARPNESS
CLAMP FIL
DEEMPHASIS
IF AGC FIL(1)
EXT AUDIO IN
DISCRIMINATOR
AUDIO NFB
AUDIO OUT
GND (VIF/SIF)
VIF IN
VIF IN
IFAGCFIL(2)
VCC (VIF/SIF)
APC FIL
X-TAL
VCC (VIDEO/CHROMA)
R in
G in
B in
R-Y out
G-Y out
B-Y out
-Y out
Q101 C3197
Q102 C3198
Q201 C3198
Q202 A1266
Q501 C3198
Z101 M1958M
Z201 TPS4.5MB
Z501 SFE4.5MB
VR101 50KB AGC ADJ.
B-DRIVE
R-DRIVE
B-BIAS
R-BIAS
G-BIAS
P503
180V
NC
NC
B-Y
R-Y
G-Y
GND
5V
WF 1
WF 4
WF 5
WF 6
WF 7
WF 8
WF 9
WF25
WF27
www.tecnicosaurios.com

NC-36A CHASS

IC1 GS8208 MICOM

KEY OUT

KEY IN

IC2 LA7945

CP1

CP2

SW2 FUNCTION

SW3 VOL-

SW4 VOL+

SW5 CH-

S6 CH+

P601 SPEAKER 16 Ω 120-C93A

Q604 2235

Q605 965Y

Q606 C3198

Q1 C3198

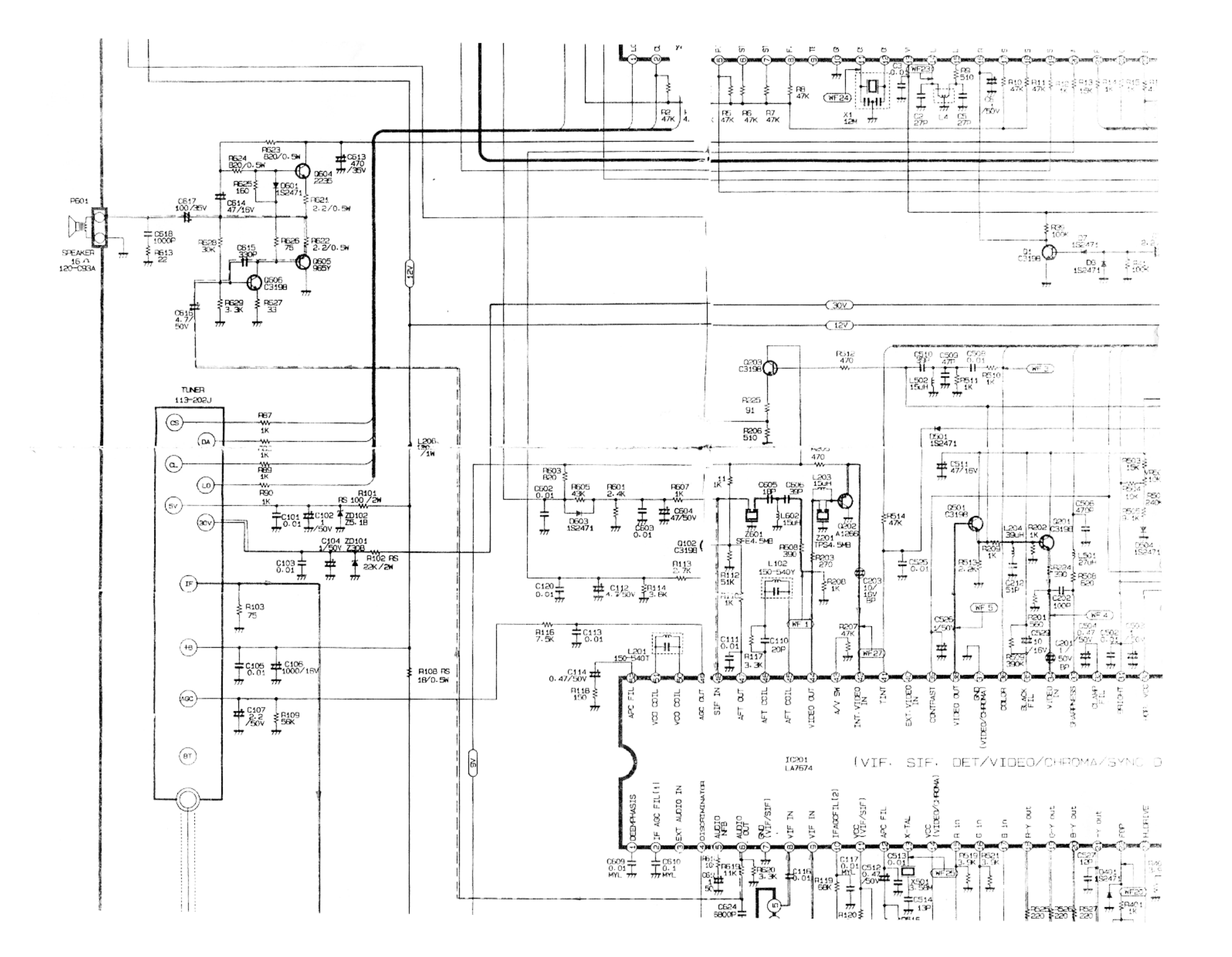
Q203 C3198

X1 12M

5V

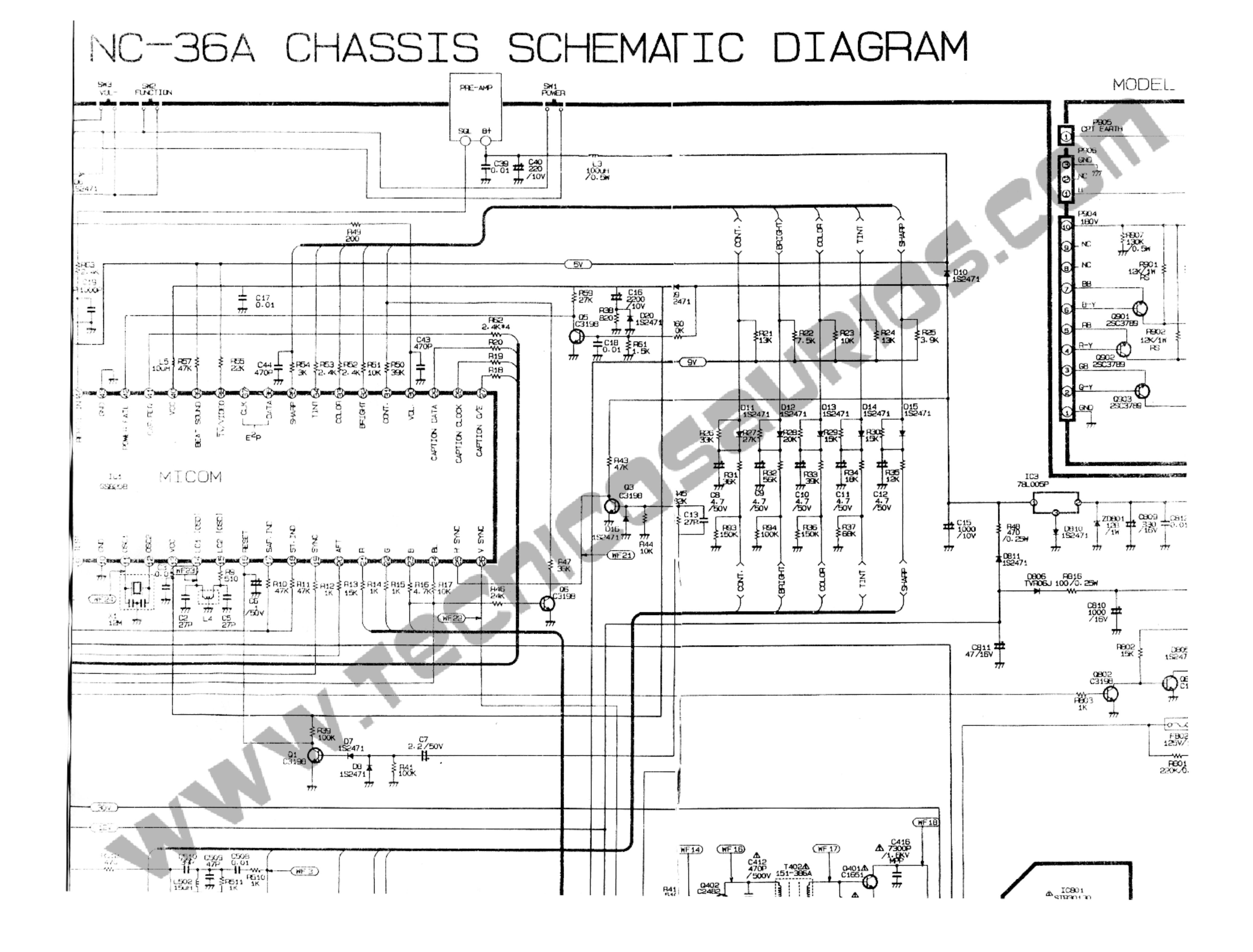
12V

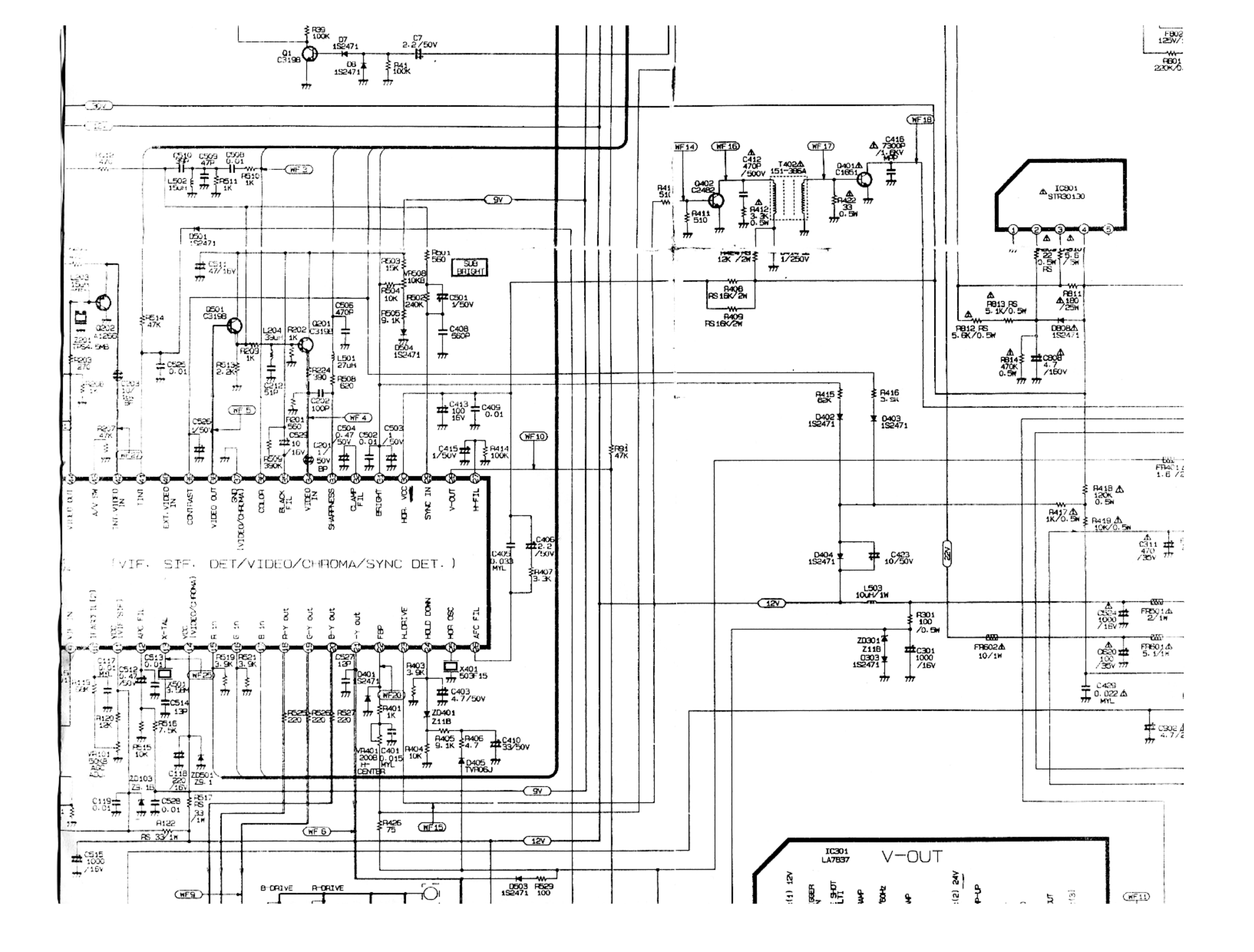
30V



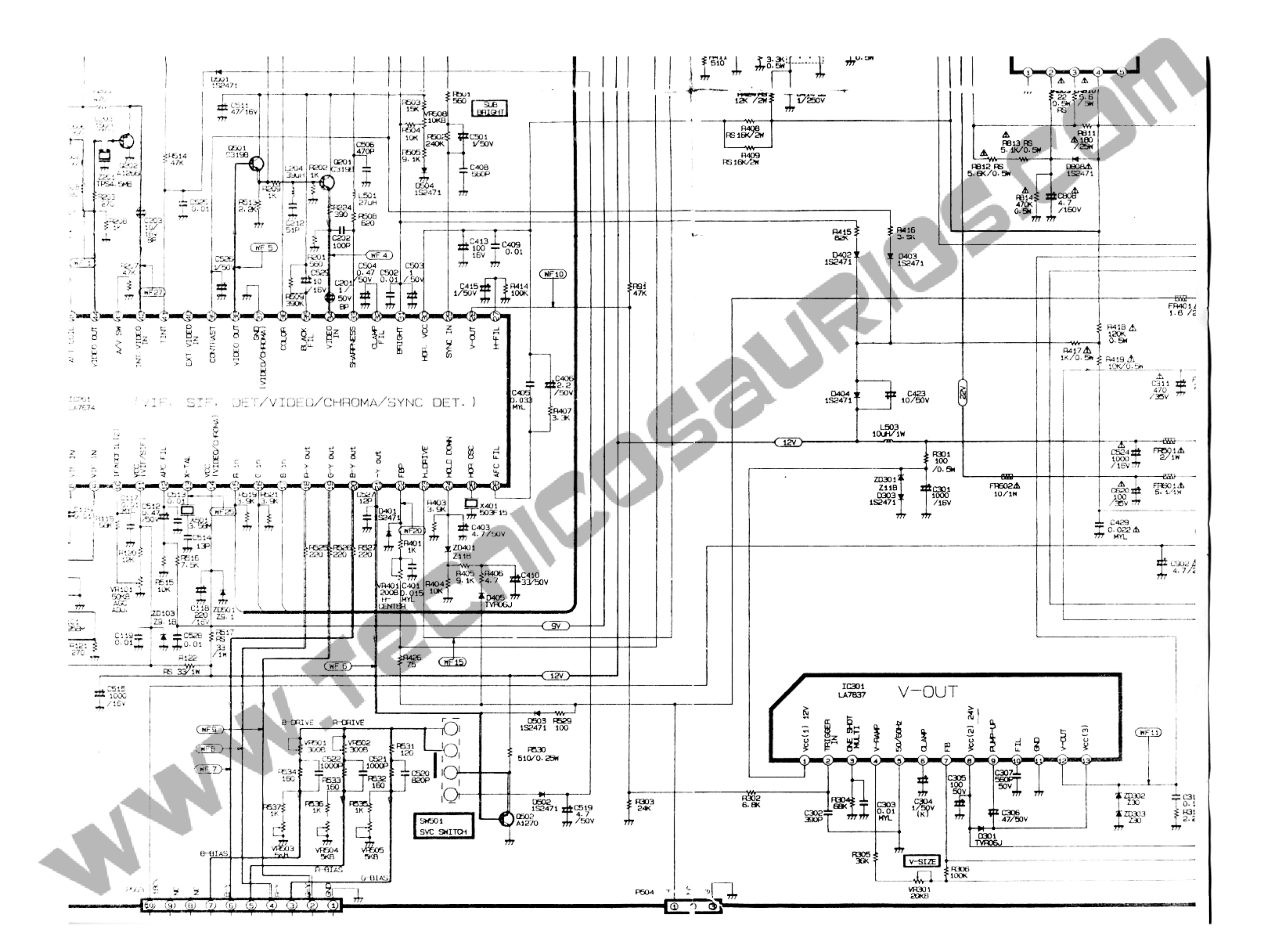
(VIF. SIF. DET/VIDEO/CHROMA/SYNC D
IC201
LA7574
TUNER
113-202J
SPEAKER
16 Ω
120-C93A
P601
Q604
2235
Q605
965Y
Q606
C3198
Q203
C3198
Q202
A1266
Q501
C3198
Q201
C3198
Q1
C3198
12V
30V
5V
DEEMPHASIS
IF AGC FIL(1)
EXT AUDIO IN
DISCRIMINATOR
AUDIO NFB
AUDIO OUT
GND (VIF/SIF)
VIF IN
VIF IN
IFAGCFIL(2)
VCC (VIF/SIF)
APC FIL
X-TAL
VCC (VIDEO/CHROMA)
R in
G in
B in
R-Y out
G-Y out
B-Y out
-Y out
FBP
H.DRIVE
APC FIL
VCO COIL
VCO COIL
AGC OUT
SIF IN
AFT OUT
AFT COIL
AFT COIL
VIDEO OUT
A/V SW
INT.VIDEO IN
TINT
EXT.VIDEO IN
CONTRAST
VIDEO OUT
GND (VIDEO/CHROMA)
COLOR
BLACK FIL
VIDEO IN
SHARPNESS
CLAMP FIL
BRIGHT

NC-36A CHASSIS SCHEMATIC DIAGRAM



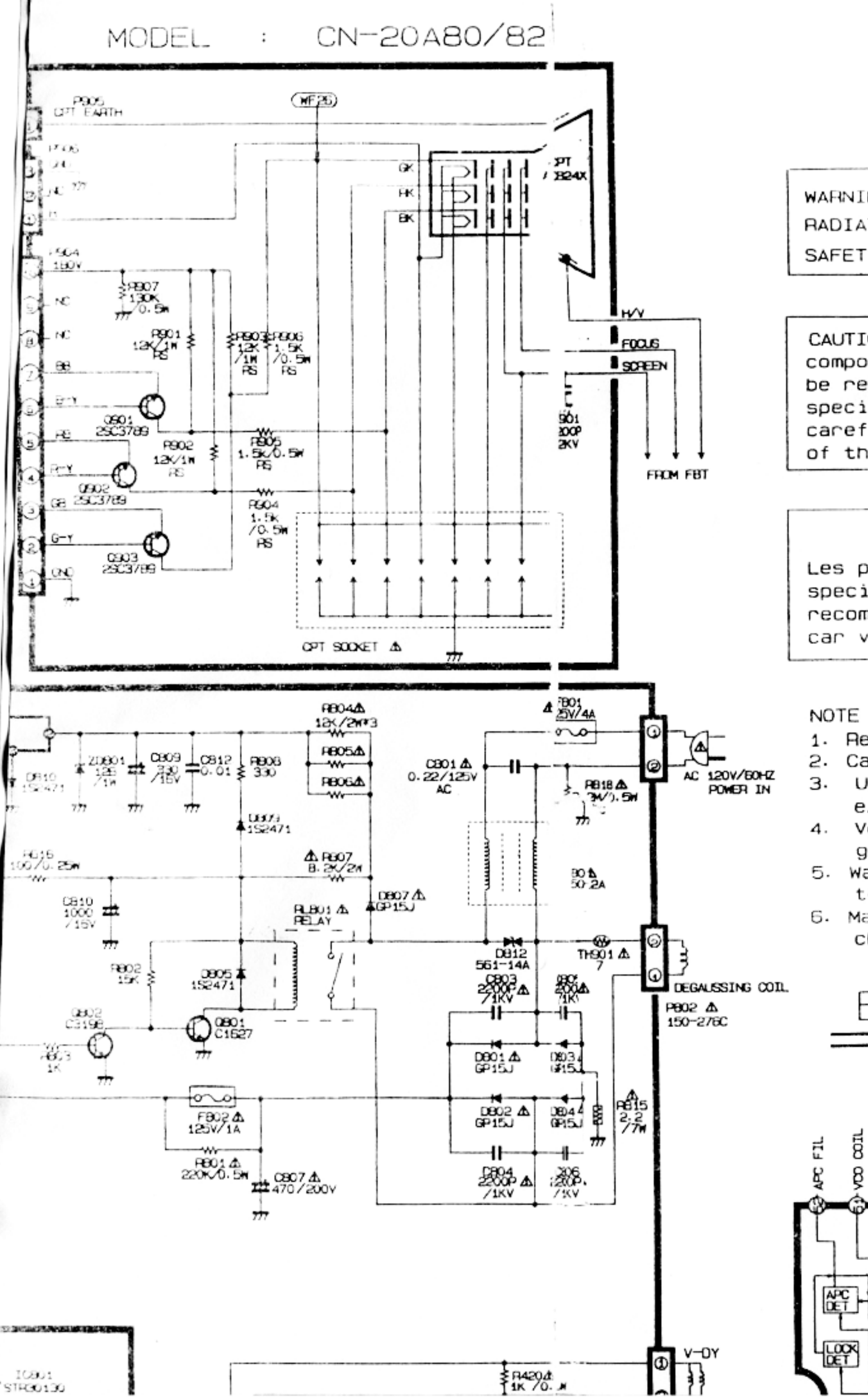


V-OUT
IC301 LA7837
IC801 STR30130
(VIF. SIF. DET/VIDEO/CHROMA/SYNC DET.)
SUB BRIGHT
T402 151-386A
C416 7300P /1.6KV MPP
X401 503F15
B-DRIVE
R-DRIVE



IC301
LA7837
V-OUT
VCC(1) 12V
TRIGGER IN
ONE SHOT MULTI
V-RAMP
50/60Hz
CLAMP
FB
VCC(2) 24V
PUMP-UP
FIL
GND
V-OUT
VCC(3)
V-SIZE
VR301 20KB
R302 6.8K
R303 24K
R304 68K
R305 36K
R306 100K
C302 390P
C303 0.01 MYL
C304 1/50V (K)
C305 100 50V
C306 47/50V
C307 560P 50V
D301 TVR06J
ZD302 Z30
ZD303 Z30
P504
(VIF. SIF. DET/VIDEO/CHROMA/SYNC DET.)
LA7674
VIDEO OUT
A/V SW
INT VIDEO IN
TINT
EXT VIDEO IN
CONTRAST
VIDEO OUT
GND (VIDEO/CHROMA)
COLOR
BLACK FIL
VIDEO IN
SHARPNESS
CLAMP FIL
BRIGHT
HOR. VCC
SYNC IN
V-OUT
H-FIL
APC FIL
X-TAL
VCC (VIDEO/CHROMA)
R in
G in
B in
R-Y out
G-Y out
B-Y out
-Y out
FBP
H.DRIVE
HOLD DOWN
HOR OSC
AFC FIL
SUB BRIGHT
SW501 SVC SWITCH
Q502 A1270
Q501 C3198
Q201 C3198
B-DRIVE
R-DRIVE
B-BIAS
R-BIAS
G-BIAS
VR501 300B
VR502 300B
VR503 5KB
VR504 5KB
VR505 5KB
X401 503F15
VR401 200B H-CENTER
L503 10uH/1W
12V
9V
22V
WF4
WF5
WF6
WF7
WF8
WF9
WF10
WF11
WF15
WF20
WF27

MODEL : CN-20A80/82



WARNING : BEFORE SERVICING THIS CHASSIS. READ THE 'X-RAY RADIATION PRECAUTION.' 'SAFETY PRECAUTION' AND PRODUCT SAFETY NOTICE' IN THIS MANUAL

CAUTION : The ⚠ marks in the schematic diagram and the parts list designate components which have special characteristics for safety. and should be replaced only which types identical to those in the original circuit or specified in the parts list. Before replacing any of these components. read carefully the PRODUCT SAFETY NOTICE in this manual. Do not degrade the safety of the receiver through improper servicing.

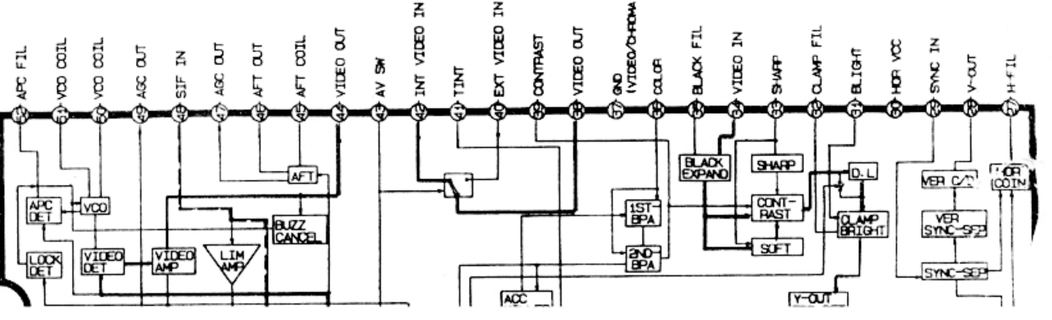
AVIS SUR LA SECURITE DU PRODUCT

Les piéces de la partie ombrée possdent d'importantes caratéristiques speciales par rapport à la sécurité et avant de les remplacer. il est recommandé de lire le manuel de service. No maitraitez pas le recepteur car vous pourriez en endommager ie systéme securitaire.

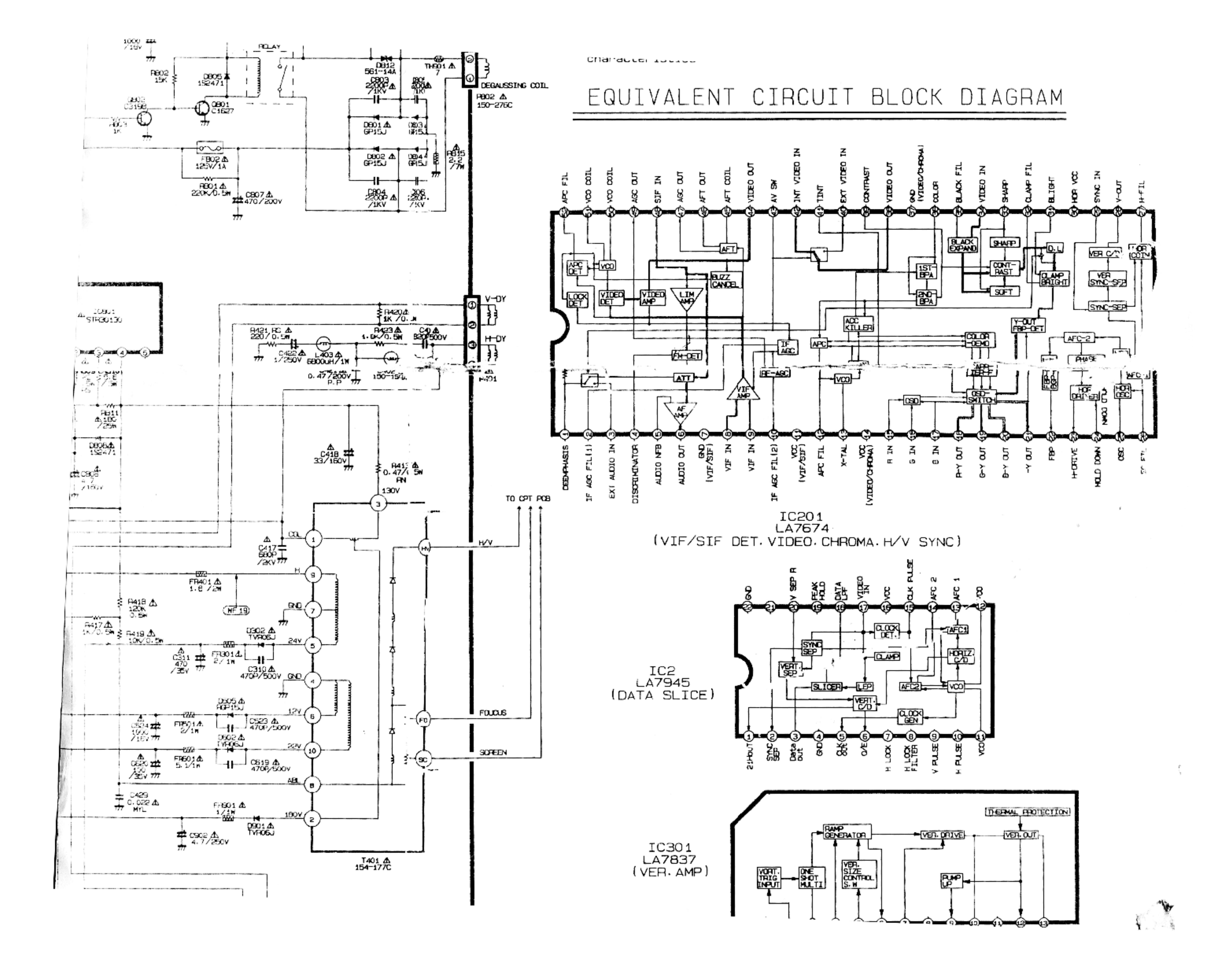
NOTE

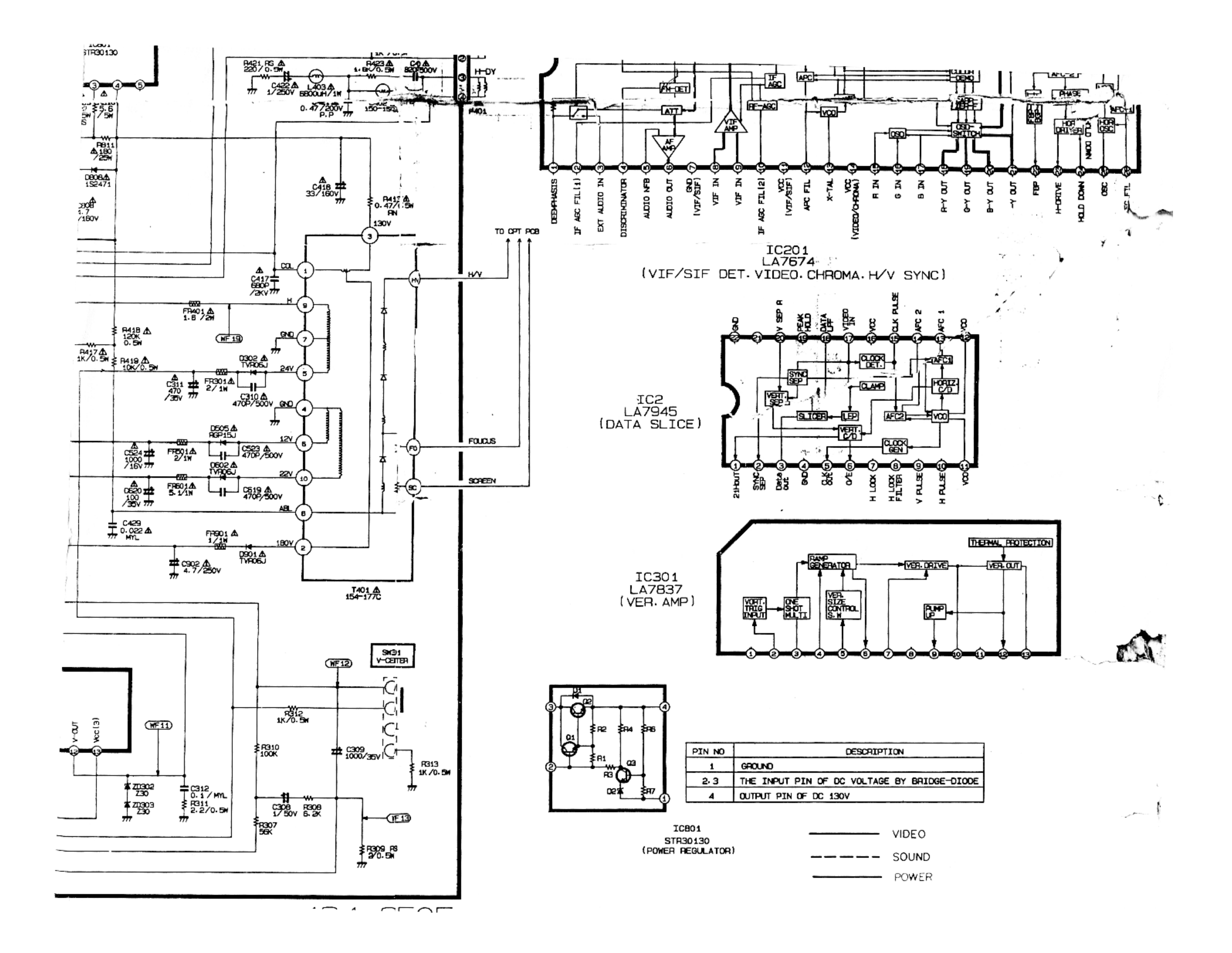
1. Resistance is shown in ohm. K=1.000 M=1.000.000
2. Capacitors are shown in uF otherwise noted: P = uu
3. Unless otherwise listed. all inductor values more than 1 are expressed in uH. and the values less than 1 in H.
4. Voltages are measured DVM from point indicated to chassis ground. using color bar signal with all controls at normal.
5. Waveforms are measured with synchroscope from point indicated to chassis ground. using color bar with all controls at normal.
6. May choose anyone. since listed following semiconductors have same characteristics

EQUIVALENT CIRCUIT BLOCK DIAGRAM



EQUIVALENT CIRCUIT BLOCK DIAGRAM





PIN NO	DESCRIPTION
1	GROUND
2, 3	THE INPUT PIN OF DC VOLTAGE BY BRIDGE-DIODE
4	OUTPUT PIN OF DC 130V